

Amendments to the Specification:

Please replace paragraph [0075] with the following rewritten paragraph:

[0075] The ~~followings explain~~ following explains the operation of the tray opening/closing sensor 107 when the manual feed tray 102 opens to permit a paper insertion.

Please replace paragraph [0084] with the following rewritten paragraph:

[0084] This paper detection sensor 212 comprises a swing arm 211 activated to rotate in the counterclockwise direction around an axis 211a, and a detection unit 210 which generates a turn-off signal when the swing arm 211 rotates in the counterclockwise direction and ~~generate~~ which generates a turn-on signal when the swing arm 210 rotates in the clockwise direction.

Please replace paragraph [0085] with the following rewritten paragraph:

[0085] The ~~followings will describe~~ following describes the operation of the paper detection sensor 212 when paper P ~~passes~~ passes by the paper detection sensor 212.

Please replace paragraph [0086] with the following rewritten paragraph:

[0086] When paper P is not in the vicinity of the printing head 304, the swing arm 211 is biased to rotate in the counterclockwise direction by a spring (not shown), and its end (the right end in Fig. 1) is sticking out of a paper path 205. The detection unit 210 is, at this time, ~~is in~~ in the state of "Off".

Please replace paragraph [0087] with the following rewritten paragraph:

[0087] When the paper P is transferred from the ~~upstream~~ upstream, and its leading end rotates the swing arm 211 in the clockwise direction, and the detection unit 210 turns on.

Please replace paragraph [0090] with the following rewritten paragraph:

[0090] Referring to Fig. 1, the structure of the printing mechanism 300 is ~~described in~~ described below.

Please replace paragraph [0091] with the following rewritten paragraph:

[0091] The printing mechanism 300 comprises a guide shaft 302 extending horizontally (in the direction of the depth in Fig. 1) and supported by the body frame 2, and a carriage ~~301~~301, supported by the guide shaft ~~302~~302, ~~to be movable in~~moves in a horizontal direction.

Please replace paragraph [0092] with the following rewritten paragraph:

[0092] A cartridge holder 305 is fixed to the carriage 301. There is an ink cartridge ~~303~~303, which contains ink used for ~~printing~~printing, that is detachably attached to the cartridge holder 305.

Please replace paragraph [0093] with the following rewritten paragraph:

[0093] A printing head 304 is attached to the carriage 301 ~~facing to~~and faces a platen ~~306 on~~306, which holds and horizontally supports paper P ~~is horizontally supported for~~ printing. Plural ink jet nozzles (not shown in the drawing) are formed in the printing head 304 to jet ink supplied from the ink cartridge 303.

Please replace paragraph [0094] with the following rewritten paragraph:

[0094] The carriage 301 can be reciprocated ~~in~~in a horizontal direction (the direction of the depth in Fig. 1) by the driving force transmitted from a carriage drive mechanism (not shown in the drawing). For printing, the ink jet nozzles selectively jet ink based on dot pattern data corresponding to ~~of~~ the printing image with the carriage 301 (ink jet nozzles) reciprocating.

Please replace paragraph [0109] with the following rewritten paragraph:

[0109] The structure of the control mechanism 400 is ~~going to be explained in~~
explained below referring to Fig. 3.

Please replace paragraph [0116] with the following rewritten paragraph:

[0116] ~~Following descriptions are about the~~ The movement of the paper feeding apparatus 100 is explained below referring to ~~Fig-Figs.~~ 4 and 5. Fig. 4 illustrates a perspective view of the paper feeding apparatus 100. Fig. 5 shows a right side view thereof.

Please replace paragraph [0117] with the following rewritten paragraph:

[0117] The paper feeding apparatus 100 comprises a frame 111, a paper loading board 101 to load sheets of paper P obliquely, a pair of sidewalls 112 arranged respectively on right and left sides of the paper loading board 101, a manual feed tray 102 openably/closably attached to the paper loading board 101 to insert paper P sheet by sheet from the backside of the paper loading board 101. The manual feed tray 102 can be opened/closed by turning around a ~~spindle 102a~~ spindle 102a.

Please replace paragraph [0118] with the following rewritten paragraph:

[0118] The paper feeding apparatus 100 also comprises an abutting surface 103 to which the bottom end of paper P abuts in the lower part of the paper loading board 101 to guide a feed ~~the feeding~~ of paper P to the printing mechanism 300.

Please replace paragraph [0122] with the following rewritten paragraph:

[0122] The ~~followings describe~~ following describes a stopper 140 ~~which prevent that prevents~~ an influx of a pile of paper from going into the downstream side of the paper feed feed, which is caused by the bottom end of paper slipping on the abutting surface 103 when sheets of paper P are loaded on the paper feeding apparatus 100.

Please replace paragraph [0123] with the following rewritten paragraph:

[0123] The stopper 140 is capable of ~~vertical turn~~ vertically turning or swing within a location groove 145 formed along the feed direction on the abutting surface 103. When the stopper 140 lowers ~~and is accommodated~~ within the location groove 145, the stopper 140 does not abut the bottom end of paper P. On the other hand, when the ~~stopper 140~~ stopper 140

risers and projects over the location groove 145, ~~it~~the stopper 140 lifts up the bottom end of paper P ~~to abut to and abuts~~ the bottom end of paper P at approximately ~~the~~ a right angle.

Please replace paragraph [0124] with the following rewritten paragraph:

[0124] The driving mechanism ~~to turn that turns~~ the stopper 140 in the vertical direction is ~~going to be described in~~ described below referring to ~~Fig. 5 and Figs. 6A and Figs. 5, 6A, and 6B. Fig. 6 A and B~~ Figs. 6A and 6B are explanatory ~~view to show~~ views that show the stopper 140 in ~~the risen~~ raised/lowered state.

Please replace paragraph [0129] with the following rewritten paragraph:

[0129] The ~~followings explain the~~ mechanism to transmit a driving force to the operation shaft 142 through the rotation lever 141 is explained below referring to Fig. 7. The manual feed tray 102 in ~~full lines~~ solid lines indicates the open position (capable of a manual paper feed). The manual feed tray 102 in dashed ~~line~~ lines shows the state of the manual feed tray 102 when it is opening from the closed state, and the state of a projection portion 102b and the rotation lever 141 are in contact.

Please replace paragraph [0133] with the following rewritten paragraph:

[0133] The ~~description in below is about the~~ mechanism to transmit the driving force to the operation shaft 142 through the gear 120i is explained below referring to ~~Fig. 5 and Figs. 6A and 6B. Figs. 5, 6A, and 6B.~~ In this case, the vertical movement of the stopper 140 is not caused by opening/closing the manual feed tray 102, ~~but~~ 102 but, is caused by driving the feed motor 220.

Please replace paragraph [0135] with the following rewritten paragraph:

[0135] When the gear 120a makes regular rotations (rotates in the clockwise direction in Fig. 5), the gear ~~120b-120b,~~ which gears with the gear ~~120a-120a,~~ makes reverse rotations (rotates in the counterclockwise direction in Fig. 5), and the gear ~~120e-120e,~~ which gears with the gear 120b but not with the gear ~~120e-120c,~~ makes regular rotations.

Please replace paragraph [0136] with the following rewritten paragraph:

[0136] The gear ~~120f~~120f, which gears with the gear ~~120e~~120e, makes reverse rotations, and the gear ~~120g~~120g, which gears with the gear ~~120f~~120f, makes regular rotations. The gear ~~120h~~120h, which gears with the gear ~~120g~~120g, makes reverse rotations, and the gear ~~120i~~120i, which gears with the gear ~~120h~~120h, makes regular rotations.

Please replace paragraph [0137] with the following rewritten paragraph:

[0137] Consequently, the cam 143 rotates in the clockwise direction separating the periphery surface from the backside of the operation arm ~~146~~146, as shown in Fig. 6B, and lowers the stopper ~~140~~lowers140.

Please replace paragraph [0140] with the following rewritten paragraph:

[0140] The constitution of the gear 120h is illustrated in Fig. 8. The gear 120h comprises a gear ~~120h1~~120h1, which gears with the gear 120g, a friction member 120h2 constituted, for example, with felt, a gear ~~120h3~~120h3, which gears with the gear 120i, a support shaft 120h4 projecting through the centers of the gears 120h1 and 120h3, and a compression spring 120h5 pressing the upper surface of the gear 120h3. The gears 120h1 and 120h3 are ~~constituted to be able~~configured to rotate ~~respectively and freely~~ around the support shaft 120h4.

Please replace paragraph [0142] with the following rewritten paragraph:

[0142] When there ~~is~~is a load on ~~the~~ gear 120i, a slip occurs between the friction member 120h2 and the gear 120h3. The driving force ~~on the~~on gear 120h1 is not transmitted ~~to the~~to gear 120h3, and ~~the~~ gear 120h1 makes idle rotation.

Please replace paragraph [0143] with the following rewritten paragraph:

[0143] Block walls 120j and 120k (refer to Fig. 5) are ~~constituted~~configured to stop the stopper 140 from turning ~~more further~~ when the stopper 140 rises to the uppermost

position and similarly, when the stopper 140 lowers to the lowermost position. When ~~more~~ an increase in rotation is given to ~~the-gear 120i when the-~~ and gear 120i is abutting to one of the block walls 120j and 120k, ~~the-gear 120h slips and does not transmit the driving force to~~ the gear 120h1. The driving force transmitted from ~~the-gear 120g to the-gear 120h1~~ is not transmitted due to the idle rotation of ~~the-gear 120h1~~.

Please replace paragraph [0147] with the following rewritten paragraph:

[0147] At this time, the first transfer roller 201 rotates in the opposite direction to the rotational direction for advancing paper P in the direction F so that the first transfer roller 201 cannot transfer paper P to the printing mechanism 300 even though paper P is transferred to the first transfer roller 201 while a paper feed is executed. This movement is to correct diagonal transfer of paper P. It is not going to be described here since it is a well-known art.

Please replace paragraph [0158] with the following rewritten paragraph:

[0158] ~~The followings explain, by using the drawings of Fig. 9 to Fig. 12, Referring to~~ Figs. 9-12, the printing process executed by the CPU 401 according to the program in the ROM 402-402 is explained below.

Please replace paragraph [0189] with the following rewritten paragraph:

[0189] When there ~~is~~ is a load on ~~the-gear 120i~~, a slip occurs between ~~the~~ friction member 120h2 and ~~the-gear 120h3~~. The driving force of ~~the-gear 120h1~~ is not transmitted to ~~the-gear 120h3~~, and ~~the-gear 120h1~~ makes idle rotation. ~~The gear-~~ Gear 120h does not give provide rotational force to ~~the-gear 120i~~ in the descent direction of the stopper 140 after the stopper 140 ~~lowers-~~ is lowered.

Please replace the Abstract with the attached amended Abstract.